

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA
MARCH 2010 WATER QUALITY ANALYSES

| FIELD MEASUREMENTS | YSI INSTRUMENT | | | | HACH 2100P |
|--------------------|---------------------------|------|---------------------------|-------------------------------|---------------------------------|
| TIME (HH:MM) | TEMP (°C) ¹ | pH | DO (mg/l) ² | EC (µmhos/cm) ³ | TURBIDITY (NTU) ⁴ |
| 10:20 AM | 19.81 | 7.78 | 5.8 | 5967 | 24.5 |

FIELD OBSERVATIONS:

10:20 AM Ambient Air Temp~75°F. Water color green. No foam. No odor. Sky clear. Light wind.

| BACTERIAL ANALYSIS ATS LABORATORY IN BRAWLEY, CA. | | | CONCENTRATION (MPN/100ml) ⁵ |
|--|----------------|----------------------------|--|
| TIME | STORET CODE | ANALYSIS METHOD | FECAL COLIFORM CONCENTRATION |
| 10:20 AM | 316315 | Multiple Tube Fermentation | 6,500 |

¹ Temperature is measured in units of degrees Celsius (°C)

² Dissolved oxygen (DO) is measured in units of milligrams per liter (mg/l)

³ Electrical conductivity (EC) is measured in units of micromhos per centimeter (µmhos/cm)

⁴ Turbidity is measured in units of Nephelometer Turbidity Units (NTU). Field measurement

⁵ Fecal Coliform density is reported as the most probable number per 100 milliliters of water sample (MPN/100 ml). Two samples were taken, and the average is reported

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| NUTRIENT ANALYSIS CDPH- SOUTHERN CALIFORNIA LABORATORY ⁶ | | | | |
|--|----------------|--------------|--------------------|-----------------------------------|
| CONSTITUENT (GRAB) | STORET CODE | METHOD | REPORTING LIMIT | CONCENTRATION (mg/l) ⁷ |
| MBAS | 38260 | SM 5540C | 0.1 | 0.121 |
| Total Phosphate | 00665 | EPA 365.4 | 0.5 | 0.99 |
| O-Phosphate Phosphorous | 00665 | EPA 300.1 | 0.4 | --- ⁸ |
| Phenol | 32730 | EPA 420.1 | 0.05 | <RL ⁹ |
| Cyanide | 00720 | SM 4500CN(E) | 0.05 | <RL |
| Ammonia - Nitrogen | 00610 | SM 4500 | 0.1 | 4.44 |
| Nitrate - Nitrogen | 71850 | EPA 300.1 | 0.1 | --- |
| Nitrite - Nitrogen | 00630 | EPA 300.1 | 0.1 | --- |
| Hardness (as CaCO ₃) | 00900 | SM 2340C | 1 | 1130 |
| Total Alkalinity (CaCO ₃) | 00410 | SM 2320B | 1 | 282 |
| Bicarbonate | 00440 | SM 2320B | 1 | NR ¹⁰ |
| Total Dissolved Solids | 70300 | EPA 160.1 | 10 | 3813 |
| Total Suspended Solids | 00530 | EPA 160.2 | 10 | 31.0 |
| Turbidity (NTU) | 82078 | EPA 180.1 | 0.1 | --- |
| BOD | 00310 | SM 5210B | 2 | --- |
| COD | 00340 | SM 5220 | 1 | 56.5 |

⁶ California State Department of Public Health, Division of Drinking Water and Environmental Management, Sanitation & Radiation Laboratory (South) in Los Angeles, CA

⁷ These concentrations are reported in units of milligrams per liter (mg/l) except for turbidity, which is report in units of NTUs

⁸ Analysis not requested

⁹ Analysis results were reported as less than the Analytical Reporting Limit

¹⁰ Not reported

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| METAL ANALYSIS CDPH – SOUTHERN CALIFORNIA LABORATORY | | | | |
|---|----------------|-----------|--------------------|------------------------------------|
| CONSTITUENT (GRAB) | STORET CODE | METHOD | REPORTING LIMIT | CONCENTRATION (µg/l) ¹¹ |
| As-Arsenic | 1002 | EPA 200.8 | 1 | 6.12 |
| Cd-Cadmium | 1027 | EPA 200.8 | 1 | <RL |
| Cr-Chromium | 1034 | EPA 200.8 | 10 | <RL |
| Cu-Copper | 1042 | EPA 200.8 | 50 | <RL |
| Pb-Lead | 1051 | EPA 200.8 | 5 | <RL |
| Se-Selenium | 1147 | EPA 200.8 | 5 | 10.5 |
| Zn-Zinc | 1092 | EPA 200.8 | 50 | <RL |
| Hg-Mercury | 71900 | EPA 200.8 | 1 | <RL |

¹¹ These concentrations are reported in units of micrograms per liter (µg/l)